

In the claims:

- 1-20 (canceled)
21. (Currently amended) A method of determining a parameter of interest of an earth formation having a plurality of layers, the method comprising:
- conveying a multi-component resistivity logging tool into a borehole in said formation;
- using at least one transmitter receiver combinations and providing a measurement indicative of the parameter of interest;
- using a switchable aperture on a shield of the resistivity logging tool for providing a selective sensitivity to the parameter of interest;
- wherein using the switchable aperture further comprises using a switching device to alter at least one of (i) a vertical dimension of the aperture, (ii) a horizontal dimension of the aperture.
22. (Previously presented) The method of claim 21, further comprising using the measurement for at least one of (i) geo-steering, and (ii) drilling assistance and well placement decisions.
23. (Previously presented) The method of claim 22 wherein the measurement further comprises a measurement made with a multi-component array and wherein using the measurement further comprises using a measurement made with at least one of: (i) a gyroscope, (ii) an accelerometer, (iii) a magnetometer, and (iv) an inclinometer.

24. (Previously presented) The method of claim 21, further comprising:
performing dual compensated measurement of a multi-component array to
improve at least one of: (i) a signal to noise ratio, (ii) measurement stability and
(iii) signal content with reservoir, geological and geophysical information.
25. (Currently amended) The method of claim 21, wherein providing the
measurement further ~~comprising~~ comprises providing ~~a the~~ measurement at a
plurality of frequencies, and using the measurement at the plurality of frequencies
for determining the parameter of interest.
26. (Currently amended) The method of claim 21 ~~¶~~ wherein using the switchable
aperture further comprises making a measurement ~~at~~ at least one of (i) and xy
orientation, (ii) an xz orientation, (iii) a yz orientation, (iv) a 20°-40° orientation,
and (v) a 40°-90° orientation.
27. canceled
28. canceled
29. (Currently amended) The method of claim 21, wherein providing the
measurement further comprises:
measuring a time domain response; and

converting the time domain response into a frequency domain response.

30. - 35 (canceled)

36. (Previously presented) The method of claim 21, further comprising:
binning measurements made by the logging tool at a plurality of rotational angles.

37. (original) The method of claim 36 further comprising:
averaging depth intervals and azimuthal sectors for the binned measurement data.

38. (Previously presented) The method of claim 37 further comprising:
processing the binned measurement data; and
estimating or inverting formation drilling target parameters from the processed
binned measurement data from a given transmitter receiver array.

39. (canceled)

40. (canceled)

41. (canceled)

42. (canceled)

43. (Previously presented) The method of claim 21, where rotation of the tool is not synchronized with a transmitter repeat cycle.
44. (canceled)
45. (canceled)
46. (Withdrawn) A method of determining a parameter of interest of an earth formation having a plurality of layers, the method comprising:
conveying a multi-component resistivity logging tool into a borehole in said formation;
using at least one transmitter receiver combinations and providing a measurement indicative of the parameter of interest; and
using a magnetic lens for providing a selective sensitivity to the parameter of interest.
47. (Withdrawn) The method of claim 46, further comprising using the measurement for at least one of (i) geo-steering, and (ii) drilling assistance and well placement decisions
48. (Withdrawn) The method of claim 46 wherein the measurement further comprises a measurement made with a multi-component array and wherein using the

measurement further comprises using a measurement made with at least one of:

(i) a gyroscope, (ii) an accelerometer, (iii) a magnetometer, and (iv) an inclinometer.

49. (Withdrawn) The method of claim 46 wherein using the magnetic lens further comprises using a printed circuit board.
50. (Withdrawn) An apparatus for determining a parameter of interest of an earth formation having a plurality of layers, the apparatus comprising:
a multi-component resistivity logging tool conveyed into a borehole in said formation;
at least one transmitter on the logging tool that is activated to produce an electromagnetic field in the formation;
at least one receiver which provides a measurement indicative of the parameter of interest; and
a switchable aperture on a shield of the resistivity logging tool which provides a selective sensitivity to the parameter of interest.
51. (Withdrawn) An apparatus for determining a parameter of interest of an earth formation having a plurality of layers, the apparatus comprising:
a multi-component resistivity logging tool conveyed into a borehole in said formation;

at least one transmitter on the logging tool that is activated to produce an electromagnetic field in the formation;

at least one receiver which provides a measurement indicative of the parameter of interest; and

a magnetic lens on the resistivity logging tool which provides a selective sensitivity to the parameter of interest.